Section 18 Industrial Water Use

18 Industrial Water Use

Industry uses water for many purposes. These include uses as solvents, for temperature control, to carry away wastes, for human needs and for aesthetic purposes.

18.1 Introduction

This section discusses the present and future uses of water for industrial purposes. Current industrial uses are relatively minor, although they could increase. All anticipated situations must be considered to assure long-range water demands and needs can be met.

18.2 Background

The major uses of water for industrial purposes are for mining operations in the Beaver Dam Wash area, for tailings leaching on the Shivwits Indian Reservation and for seven hydroelectric power plants in Washington County. The power plants are described in Table 18-1.

Tenneco Minerals Corporation consumes about 70 acre-feet of water annually at its Goldstrike Mine operation. Most of this water is purchased from the DI Ranch on the East Fork of Beaver Dam Wash. Catchment basins for precipitation are utilized when possible. The Helca Mining Company leaches mine tailings to recover gallium on the Shivwits Indian Reservation. The mine is near the "Utah Hill" on U.S. 91. Water uses are low, only about 100 gallons per day from underground sources.

Other uses are primarily for light industrial purposes in the St.George area. These purposes, mostly for employee use and outside landscaping irrigation, are supplied primarily through existing municipal systems.

18.3 Policy Issues and Recommendations

Very little industrial water is used in the basin. The water supply is delivered through the municipal systems, except for the self-supplied use for a mining operation in Beaver Dam Wash. As a result, there are no policy issues or recommendations.

TABLE 18-1
HYDROELECTRIC POWER PLANTS

Name	River	Installed Capacity (kw)
Cedar No. 1 (Gunlock)	Santa Clara	750
Cedar No. 2 (Veyo)	Santa Clara	500
Cedar No. 3 (Veyo)	Santa Clara	1,000
Cedar No. 4 (La Verkin)	Virgin	1,000
St. George	Cottonwood Creek	420
Pah Tempe	Virgin	600
Quail Creek No. 1	Virgin	2,340
TOTAL		6,610

18.4 Projected Industrial Water Development

Heavy industrial development will probably not increase at a very high rate. Increases will occur in the light industry, service and trade sectors. One hydroelectric power plant is planned below Quail Creek Reservoir. The design capacity is two megawatts.

In the future, water for industrial water uses will probably be delivered through existing municipal systems. Future water demands for industry are not anticipated to be very high. Existing supplies should cover these needs. ■

18.5 References

1. State Economic Coordinating Committee. *Economic Report To The Governor, 1992.* Salt Lake City, Utah, 1991.